

## Refine Search

### Search Results -

Terms	Documents
L10 AND (UNSATURAT\$5 ALDEHYDE OR UNSATURAT\$5 CARBOXYLIC ACID).TI.	11

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L11

Refine Search

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### Search History

DATE: Monday, January 31, 2005    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L11</u>	L10 AND (UNSATURAT\$5 ALDEHYDE OR UNSATURAT\$5 CARBOXYLIC ACID).TI.	11	<u>L11</u>
<u>L10</u>	L9 AND PRECURSOR	124	<u>L10</u>
<u>L9</u>	L8 AND OXYGEN	171	<u>L9</u>
<u>L8</u>	L7 AND OXIDAT\$5	175	<u>L8</u>
<u>L7</u>	L6 AND (562/\$ OR 502/\$ OR 568/\$)	183	<u>L7</u>
<u>L6</u>	L5 AND CATALYST	352	<u>L6</u>
<u>L5</u>	L4 AND ALKANE	402	<u>L5</u>
<u>L4</u>	L3 AND (UNSATURAT\$5 ALDEHYDE OR UNSATURAT\$5 CARBOXYLIC ACID)	1656	<u>L4</u>
<u>L3</u>	L2 OR L1	285335	<u>L3</u>

MO AND V AND (TE OR BI OR SB OR SE ) AND (NB OR TA OR TI OR

L2 AL OR ZR OR CR OR MN OR FE OR RU OR CO OR RH OR NI OR PD  
OR PT OR B OR IN OR CE)

284683 L2

L1 W AND V AND (TE OR BI OR SB OR SE ) AND MO

240426 L1

END OF SEARCH HISTORY

## Hit List

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Search Results - Record(s) 1 through 10 of 11 returned.

☐ 1. Document ID: US 20040210086 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 11

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210086

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040210086 A1

TITLE: Methods for producing unsaturated carboxylic acids and unsaturated nitriles

PUBLICATION-DATE: October 21, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bogan, Leonard Edward JR.	Hatfield	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Jacobs, Bradley Anson	Chalfont	PA	US	
Kaiser, Frederick William	Fort Washington	PA	US	
Klugherz, Peter David	Huntingdon Valley	PA	US	
Lin, Manhua	Levittown	PA	US	
Link, Richard David III	Levittown	PA	US	
Linsen, Michael William	North Wales	PA	US	

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 2. Document ID: US 20040192966 A1

L11: Entry 2 of 11

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040192966

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040192966 A1

TITLE: Catalyst composition for the selective conversion of alkanes to unsaturated carboxylic acids, method of making and method of using thereof

PUBLICATION-DATE: September 30, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hazin, Paulette N.	Houston	TX	US	
Ellis, Paul E. JR.	Sugar Land	TX	US	

US-CL-CURRENT: 562/547; 502/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 3. Document ID: US 20040097754 A1

L11: Entry 3 of 11

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040097754

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040097754 A1

TITLE: Processes for the preparation of olefins, unsaturated carboxylic acids and unsaturated nitriles from alkanes

PUBLICATION-DATE: May 20, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bogan, Leonard Edward JR.	Hatfield	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	
Zolotorofe, Donald Lee	Ivyland	PA	US	

US-CL-CURRENT: 562/546; 562/547, 585/658

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw D
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☐ 4. Document ID: US 20030187297 A1

L11: Entry 4 of 11

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187297

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187297 A1

TITLE: Methods for producing unsaturated carboxylic acids and unsaturated nitriles

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bogan, Leonard Edward JR.	Hatfield	PA	US	
Han, Scott	Lawrenceville	NJ	US	

Jacobs, Bradley Anson	Chalfont	PA	US
Kaiser, Frederick William	Fort Washington	PA	US
Klugherz, Peter David	Huntingdon Valley	PA	US
Lin, Manhua	Levittown	PA	US
Link, Richard David III	Levittown	PA	US
Linsen, Michael William	North Wales	PA	US

US-CL-CURRENT: 562/546; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 5. Document ID: US 20030109749 A1

L11: Entry 5 of 11

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030109749

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030109749 A1

TITLE: Processes for the preparation of olefins, unsaturated carboxylic acids and unsaturated nitriles from alkanes

PUBLICATION-DATE: June 12, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bogan, Leonard Edward JR.	Hatfield	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	
Zolotorofe, Donald Lee	Ivyland	PA	US	

US-CL-CURRENT: 562/546; 562/547, 585/654, 585/660

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 6. Document ID: US 20020115887 A1

L11: Entry 6 of 11

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115887

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020115887 A1

TITLE: Catalysts for the oxidation of unsaturated aldehydes to produce carboxylic acids and methods of making the same

PUBLICATION-DATE: August 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karim, Khalid	Manchester		GB	
Bhat, Yajnavalkya Subrai	Riyadh		SA	
Zaheer, Syed Irshad	Riyadh		SA	
Khan, Asad Ahmad	Riyadh		SA	

US-CL-CURRENT: 562/532; 502/248

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6710207 B2

L11: Entry 7 of 11

File: USPT

Mar 23, 2004

US-PAT-NO: 6710207

DOCUMENT-IDENTIFIER: US 6710207 B2

TITLE: Methods for producing unsaturated carboxylic acids and unsaturated nitriles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6444845 B1

L11: Entry 8 of 11

File: USPT

Sep 3, 2002

US-PAT-NO: 6444845

DOCUMENT-IDENTIFIER: US 6444845 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Process for the oxidation of unsaturated aldehydes to produce carboxylic acids using Mo-V based catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 6180825 B1

L11: Entry 9 of 11

File: USPT

Jan 30, 2001

US-PAT-NO: 6180825

DOCUMENT-IDENTIFIER: US 6180825 B1

TITLE: Oxidation of alkanes to unsaturated aldehydes and carboxylic acids using a catalyst containing Mo, V, Te and Nb

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 5990348 A

L11: Entry 10 of 11

File: USPT

Nov 23, 1999

US-PAT-NO: 5990348

DOCUMENT-IDENTIFIER: US 5990348 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Conversion of alkanes to unsaturated carboxylic acids over heteropoly acids supported on polyoxometallate salts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Terms

Documents

L10 AND (UNSATURAT\$5 ALDEHYDE OR UNSATURAT\$5  
CARBOXYLIC ACID).TI.

11

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☐ 11. Document ID: US 5380933 A

Using default format because multiple data bases are involved.

L11: Entry 11 of 11

File: USPT

Jan 10, 1995

US-PAT-NO: 5380933

DOCUMENT-IDENTIFIER: US 5380933 A

TITLE: Method for producing an unsaturated carboxylic acid

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ushikubo; Takashi	Yokohama			JP
Nakamura; Hiroya	Yokohama			JP
Koyasu; Yukio	Tokyo			JP
Wajiki; Shin	Tokyo			JP

US-CL-CURRENT: 562/549; 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Terms	Documents
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